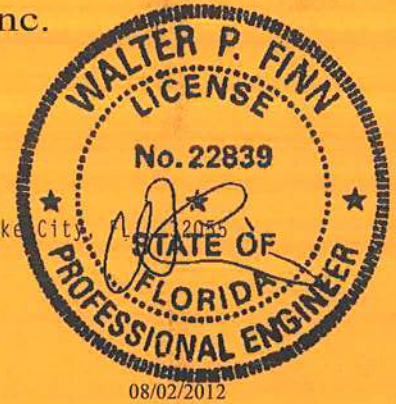


73

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1UOB9114Z0302115258



Truss Fabricator: Anderson Truss Company
Job Identification: 12-173--Jerry Castagna Constructi J. Willmann Res. -- Lake City
Truss Count: 2
Model Code: Florida Building Code
Truss Criteria: FBC2010Res/TPI-2007(STD)
Engineering Software: Alpine Software, Version 10.03.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 120 MPH ASCE 7-10 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR9114

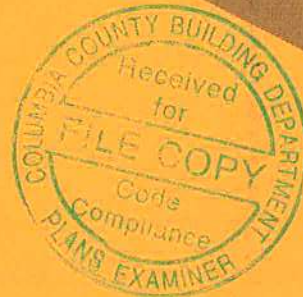
Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-12015EC1-GBLLETIN-GABRST10-

#	Ref	Description	Drawing#	Date
1	04530--A		12215004	08/02/12
2	04531--AGE 32' Gable		12215005	08/02/12

ALPINE



This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

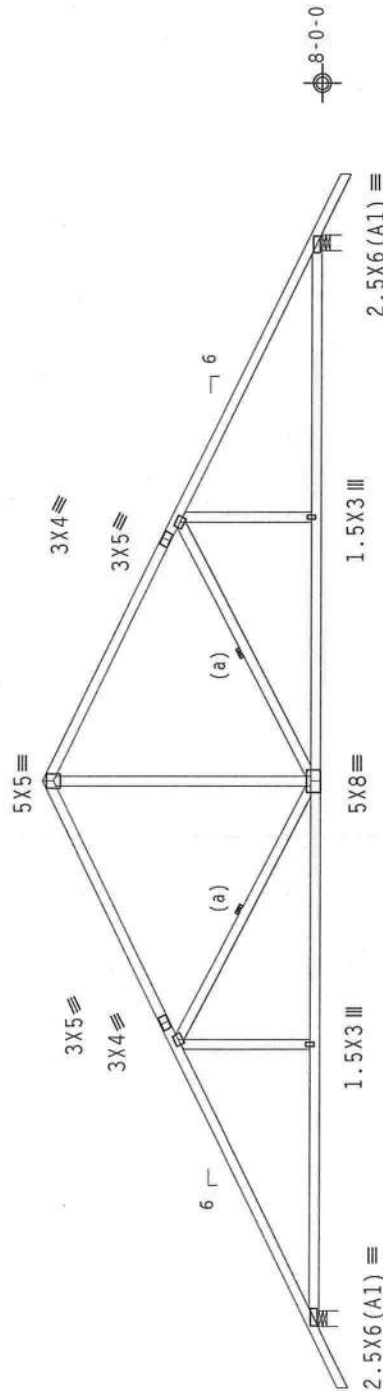
Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

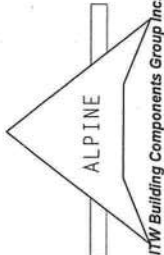
(a) Continuous lateral bracing equally spaced on member.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



16'-0" 16'-0" 32'-0" Over 2 Supports
R=1437 U=0 W=5.5"
RL=146/-146

Design Crit: FBC2010Res/TPI-2007 (STR)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave	10-03-11 020821 No. 22839	QT 20	FL/-14/-1-R/-	Scale = .1875"/Ft.
 Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCCI (Building Component Safety Information, by TPI and MTCA) instructions prior to performing these functions. Installers shall provide temporary bracing in accordance with the latest edition of BCCI (Building Component Safety Information, by TPI and MTCA) instructions. Trusses shall have a properly attached rigid ceiling, locations shown for permanent lateral bracing shall have bracing installed per BCCI sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's general notes page: ITW BCG: www.itwbcg.com; TPI: www.tpiinst.org; MTCA: www.structure77.com; ICC: www.iccsafe.org			
	TC LL	20.0 PSF	REF	R9114- 4530
	TC DL	10.0 PSF	DATE	08/02/12
	BC DL	10.0 PSF	DRW	HCUSR9114 12215004
	BC LL	0.0 PSF	HC-ENG	JB/WPF
	TOT.LD.	40.0 PSF	SEQN	288390
	DUR.FAC.	1.25		
	SPACING	24.0"	JREF	1U0B9114Z03

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

Wind loads and reactions based on MWFRS with additional C&C member design.

Stacked top chord must NOT be notched or cut in area (NWL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3
::Stack Chord SC1 2x4 SP #1::Stack Chord SC2 2x4 SP #1:
220 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. Gcpi (+/-)=0.18

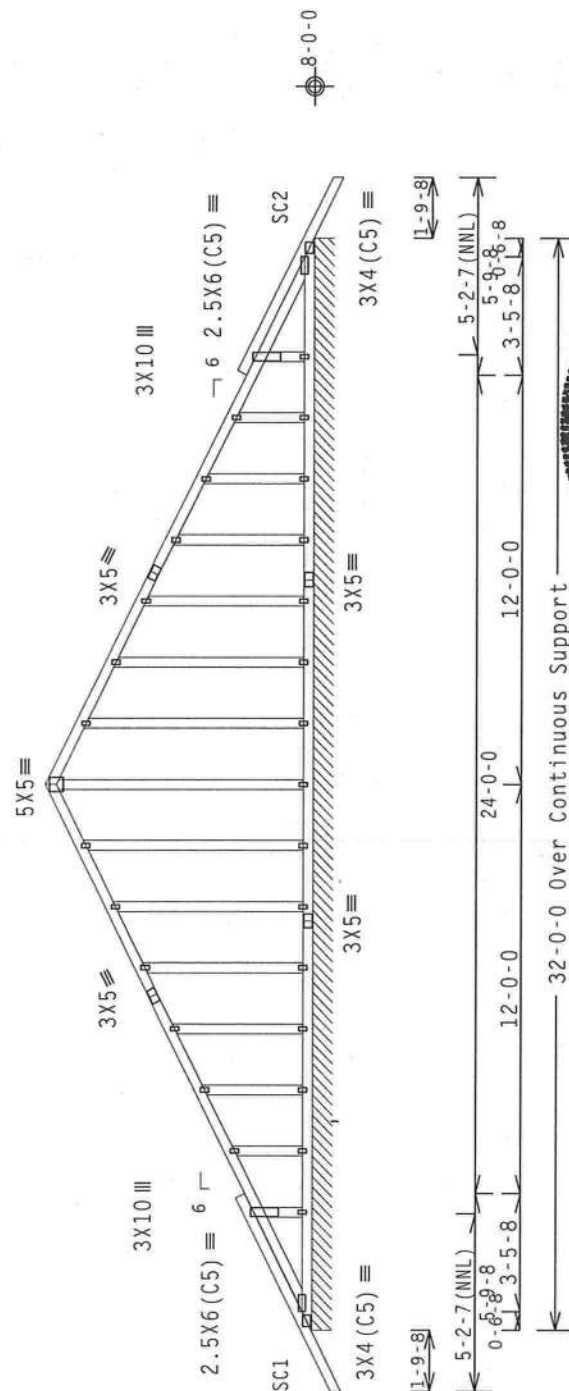
See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

In lieu of structural panels use purlins to brace TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Gable end supports 8" max rake overhang.



R=191 PLF U=0 PLF W=32-0-0
RL=4/-4 PLF

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007 (STD
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

FL/-/4/-/-/R/-
Scale = .1875"/Ft.

C LL	20.0	PSF	REF R9114- 4531
C DL	10.0	PSF	DATE 08/02/12
C DL	10.0	PSF	DRW HCUSR9114 12215005
C LL	0.0	PSF	HC-ENG JB/WPF
OT.LD.	40.0	PSF	SEQN- 288400
UR.FAC.	1.25		
PACING	24.0"		JREF- 1U089114Z03

08/02/2012

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing for all trusses unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraints shall have bracing installed per BCSI section 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any future building code to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 1000-2 for standard plate positions. A disclaimer of liability shall be included in the contract documents for the use of this design. The responsibility shall be the design shown. The suitability and use of this design for the responsibility solely of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page: ITW-855; www.itwbcg.com; TPI: www.tpiast.org; WCA: www.abcdindustry.com; IBC: www.iccsafe.org

A1

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

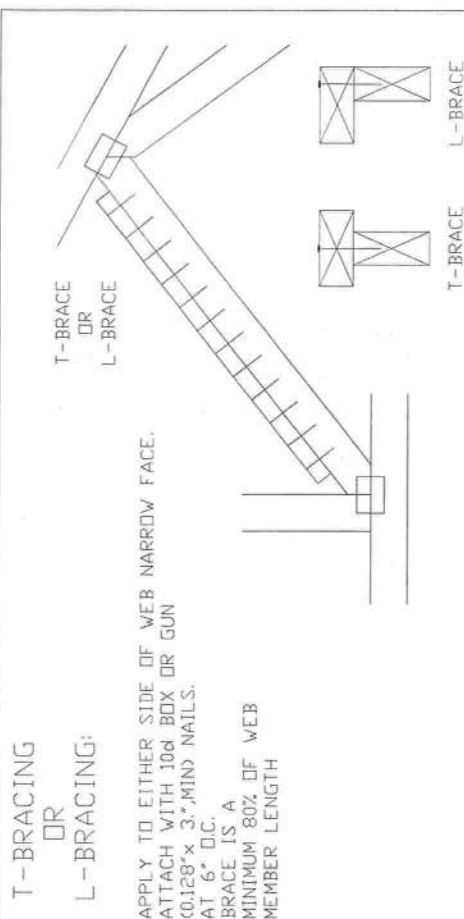
THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLUB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(※)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(※)

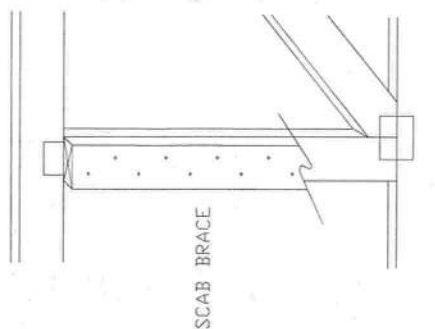
T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
ATTACH WITH 10d BOX OR GUN
NAILS.
BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCLBSUB0109
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

★ **WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET** before installing, shipping, installing and bracing. Refer to the following BCSI Building Components Safety Information TPI and/or VTCA documents for more information on these functions. Installers should provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural panels and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall be as shown. Permanent bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

PRU

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.**

VTCA Building Components Group Inc. (VTBCG) shall not be responsible for any deviation from the design shown on this drawing in accordance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. VTBCG connector plates are made of 2018/16GA UH/AS/A36 ASTM A36 steel. Connector plates are marked with VTBCG logo and part number, positioned as shown above. See drawing 37/4040 B/GM/VH/S3.010. Apply plates to each face of truss, positioned as shown above.

NOTES: A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.

VTBCG: email=wtb@vtca.com; TPI: www.tpiinc.com; VTCA: www.vtcaindustry.com; IBC: www.iccsafe.org

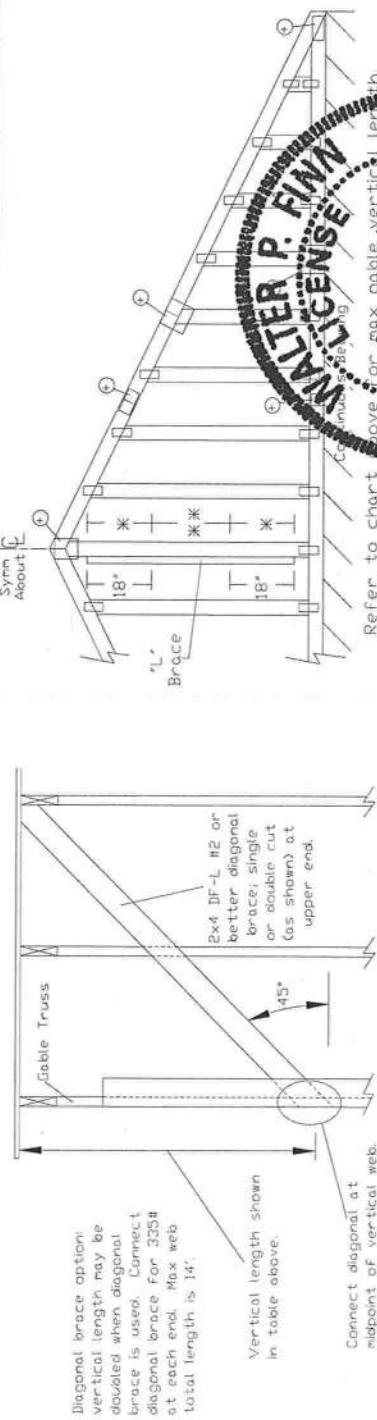
Earth City, MO 63045

ASCE 7-10: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00 Dr1 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00 Dr2 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Gable Vertical Species		Brace		(1) 1x4 'L' Brace		(2) 2x4 'L' Brace		(1) 2x6 'L' Brace		(2) 2x6 'L' Brace		(1) 2x6 'L' Brace		(2) 2x6 'L' Brace	
Spacing	Grade	No	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
12" o.c.	SPF	4' 10"	4' 10"	8' 2"	8' 2"	9' 8"	10' 1"	11' 6"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	4' 7"	4' 7"	7' 9"	8' 3"	9' 7"	9' 11"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	4' 7"	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	4' 11"	4' 11"	8' 3"	8' 7"	9' 9"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" o.c.	DFL	4' 10"	4' 10"	8' 2"	8' 6"	9' 8"	10' 1"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	4' 7"	4' 7"	7' 9"	8' 3"	9' 7"	9' 11"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	4' 7"	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	4' 11"	4' 11"	8' 3"	8' 7"	9' 9"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	DFL	4' 10"	4' 10"	8' 2"	8' 6"	9' 8"	10' 1"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	4' 7"	4' 7"	7' 9"	8' 3"	9' 7"	9' 11"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	4' 7"	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	4' 11"	4' 11"	8' 3"	8' 7"	9' 9"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:	
Group A:	
Spruce-Pine-Fir	Heim-Fir
#1 / #2	#3
Standard	Standard
Group B:	
Douglas Fir-Larch	Southern Pine
#1	#2
Standard	Standard

Gable Truss Detail Notes:	
Wind Load deflection criterion is L/240.	
Provide uplift connections for 35 plf over continuous bearing (5 psf TC Dead Load).	
Gable end supports load from 4' 0" outlofters with 2' 0" overhang, or 12' plywood overhang.	
So, Pine lumber design values based on the ALSC January, 2012 rule.	
Attach 'L' braces with 10d (0.128"x3.0" min) nails.	
For (1) 'L' brace: space nails at 2' o.c.	
In 18" end zones and 4' o.c. between zones.	
For (2) 'L' brace: space nails at 3' o.c.	
In 18" end zones and 6' o.c. between zones.	
'L' bracing must be a minimum of 80% of web member length.	



Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 335# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.

Refer to chart above for max gable vertical length.

Refer to chart above for max gable vertical length.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and VITA) for safety instructions. Performers shall provide temporary bracing per BCSI. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall be used. Trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 1004-2 for standard plate positions.

ITV Building Components Group, Inc. shall not be responsible for any deviation from this drawing. Failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing is the responsibility of the Building Designer per ANSI/TPI 1 Sec2.

ITV BCSI: www.itvbcsi.com, TPI: www.tpiinc.org, VITA: www.vitaindustry.org, ICC: www.iccsa.org

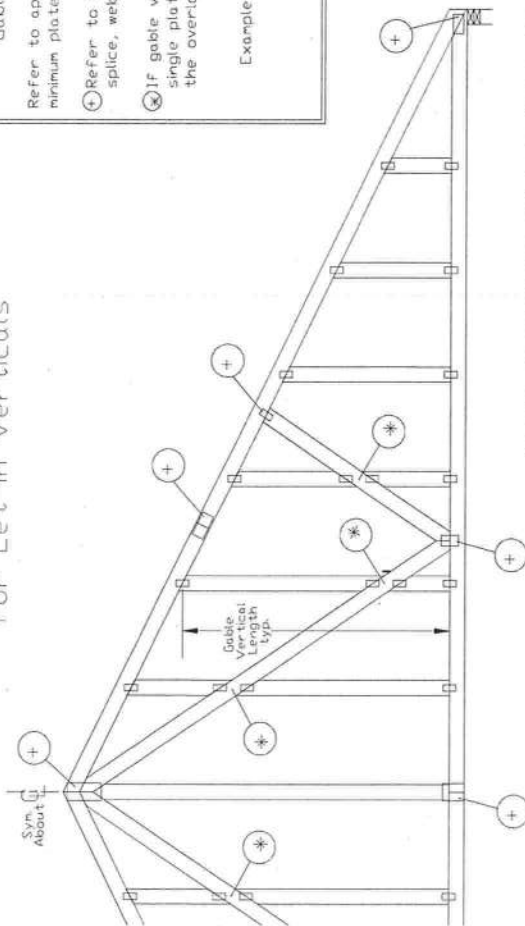
WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER

08/02/2012

REF: ASCE7-10-GAB12015
DATE: 2/14/12
DRWG: A12015ENC100212

MAX. TOT. L.D. 60 PSF
MAX. SPACING 24.0"

Gable Detail For Let-in Verticals

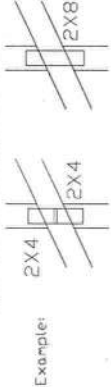


Gable Truss Plate Sizes

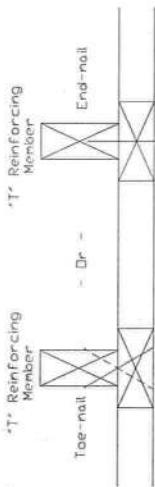
Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



T Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length based on appropriate ITW gable detail.

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mar. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

⊗ 2x4 "L" Brace Length = 8' 7"

Maximum "T" Reinforced Gable Vertical Length

1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3".min) Nails at 4" o.c. plus

(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3".min) Toenails at 4" o.c. plus

(4) toenails in the top and bottom chords.

This detail to be used with the appropriate ITW gable detail for ASCE

wind load.

ASCE 7-98 Gable Detail Drawings

A13015980109, A12015980109, A11015980109, A10015980109,

A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 Gable Detail Drawings

A13015020109, A12015020109, A11015020109, A10015020109,

A13030020109, A12030020109, A11030020109, A10030020109

ASCE 7-05 Gable Detail Drawings

A13015050109, A12015050109, A11015050109, A10015050109,

A13030050109, A12030050109, A11030050109, A10030050109

ASCE 7-10 Gable Detail Drawings

A1515ENC100212, A12015ENC100212, A20015ENC100212,

A18015ENC100212, A20015ENC100212, A14030050109,

A11530ENC100212, A12030ENC100212, A20030ENC100212,

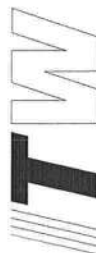
A18030ENC100212, A20030ENC100212, A20030ENC100212

See appropriate ITW gable detail for maximum unreinforced gable vertical length

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety) Information, by TPI and VTC for details. Failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of the truss design by the manufacturer. The manufacturer's seal is the responsibility of the manufacturer. For more information see this job's general notes page and these web sites: ITWBCG www.itwbcg.com, TPI www.tpinet.org, VTC www.vtcindustry.org, ICC www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

No. 22839



REF LET-IN VERT

DATE 2/16/12

DRWG GBLLETIN0212

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

